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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/600,678	: 06/19/2003	Christian Schurle	(WW) 27737 PUS 6744		
7	590 · 08/30/2004		EXAMINER		
M. Robert Kestenbaum			FORD, JOHN K		
11011 Bermud Albuquerque,			ART UNIT PAPER NUMBER		
			3753		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	$-\Lambda H \Lambda$
Office Action Comments	10/600,678	SCHURLE ET AL.	100
Office Action Summary	Examiner	Art Unit	
	John K. Ford	3753	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addres	ss
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commu D (35 U.S.C. § 133).	unication.
Status			
1) Responsive to communication(s) filed on	·		
2a) This action is FINAL . 2b) ☐ This	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under the secondary of the secondary secondary secondary.	•		erits is
Disposition of Claims			
4) Claim(s) 1-9 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	***	, ,	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•	•	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Application trity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Sta	ge
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/26/03 + 4/22104 	Paper No(s)/Mail D 5)	ate Patent Application (PTO-152	2)

Art Unit: 3753

Applicant has submitted at least three prior art references (DE '942, DE '834 and DE '501) that have apparently been used to critique claims in the German Patent office. If translations of these references are unavailable, could applicant at least translate the gist of the examiner's remarks in regard to the aforementioned references as found on page 2 of the German Search Report.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 should positively the location of the "Fluid outlet" by deletion of the words "to be positioned".

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-3, 6 and are 8 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over DE 19650942.

It appears from the German Search Report that a support arrangement 9 is shown fixed to a vehicle and has a fan 3, first heat exchanger 13 and a combustion heater 8. While not disclosed, the heater 8 inherently has a heat exchanger inside of it to prevent discharge of combustion products into the vehicle. Regarding claim 2, the unit 9 appears to be arranged on the firewall (6?), and substantially closes the hole with the rotary valve shown at 12[§], it would appear. Regarding claim 6, it is known that coolers such as 13 are connected to compressors, which constitute "a drive unit".

Claims 1-3, 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over DE '942 as applied to claims 1-3, 6 and 8 above, and further in view of Okura et al (USP 4,749,028).

Okura discloses a conventional air conditioning system (see description of element 6) includes a compressor, as believed to be inherent in DE '942, as well as a heat exchanger 20 in a combustion heater (again believed to be inherent in DE'942).

To have used conventional refrigeration components connected to heat exchanger 13 of DE '942 and conventional combustion heater heat exchange in unit 8 of DE '942 would have been obvious to one of ordinary skill in the art as taught by Okura.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 4014501.

DE '501 cited by applicant, without translation, shows a support (casing) in Figure 1, a fan 11, first heat exchanger 2, heating device 7, second heat exchanger 3, The heating device 7 and second heat exchanger 3 are supported in the casing in Figure 1.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2 and 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Shirota (60\\$656), Figure 6, and Quass (5413279).

Shirota in Fig 5 shows heater core 22 (first heat exchanger) fixed in a casing (shown in exploded view in fig 5). The casing is shown in figure 6 with pipes 22a extending through the firewall into the engine compartment. No combustion heater is shown.

Quass teaches a series connected combustion heater and liquid to air heat exchange in Figs 1-3 and states that it is intended to be a substitute for a conventional heater core (Quass col. 3, lines 3-7), such as shown by Shirota.

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To have made the substitution explicitly suggested by Quass into Shirota (in place of Shirota's core 22) to obtain advantageous quick heating of passenger compartment and engine would have been obvious.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Takagi (6076593) and Quass (5413279).

Takagi shows a combustion burner 76 with a second heat exchanger (Fig. 2 element 86) located upstream of a first heat exchanger 34. First heat exchanger 34 is located and supported in support arrangement duct 14, which has a fan 30 upstream of it. The heating device 76 and heat exchanger 34 are not commonly supported on the duct 14.

Quass Figs. 1-3 teaches an integrated heater core 4 and combination burner 6 that are suitable for mainting in place of a conventional heater core. See col. 3, lines 3-7.

To have used Quass' combined heater core/combustion heater in ** Takagi's casing in place of elements 76 and 34 to advantageously preheat the engine when using internal combustion engine source would have been obvious.

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Claim 4 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and to address the 35 USC. UZ problem noted above.

Any inquiry concerning this communication should be directed to John Ford at telephone number 308-2636.

John K. Pord Primary Examine